DART AEROSPACE LTD		
THE CONTROLLID	Work Order:	24533
Description: Hi-Step Leg Assembly		
2.09 Assembly	Part Number:	D2582
Dwg: D2582 Rev. A; D2322 Rev. C; D2279 Rev. D		
, 52322 Nev. C, D22/9 Rev. D	Qty:	8 10
		Page 1 of 2

S	tep	Location	Procedure		<u> </u>	rage 1	or 2	
		DC	Issue Transit		By	Date		Qt
L			(minimum lots of sa) \$ PF 02.10.22	7	Λ			
	2	MV	Cut blanks: (6 520" x 4 500") + (0 0 40" 4	7	H	05.10,1	12	10
	- 1		Cut blanks: (6.520" x 4.500") +/- 0.010" (grain along 4.500") Material: 2024-T3 sheet (QQ-A-250/4) 0.040" Thick) [<u> </u>			
	- 1		(M2024T3S.040)				1	
<u> </u>			Identify as D2322	_				
	3 1	MV	Cut blanks: (4.70" x 4.50") -0.00/+0.000" (<u> </u>	<u>.L</u>	05.10.2	5	0
	1		1 """ - '''' - '' - '' - ' ' ' ' ' ' ' ')				
			(***2027133.040)					
		45.4	Gut blooks (40.34) Batch: M7948		2	4		1
4	4 N	ΛV	Cut blanks: (16.61" x 8.51") + 000/ 0.020" (-	7	<u>L</u>	05.10.2	25	10
			for each leg (grain along 8.51)	")		1		
			Material: 5052-H32 sheet (QQ-A-250/8) 0.080" Thick				Į.	
			(**************************************	- 1				
	- 1		Identify as D2278 (Note: make two legs per assembly) Batch:	-	,		_ ~)()
5		IV		. √.	L	05.10.21	a	(
"	' 'V		Cut plank: (3.400") +/-0.020"				<u> </u>	-
	ł	İ	Material: 6061-T6 (QQ-A-250/8) 0.25" Thick (M6061T6B0.250x1.000)	-	٠			
		İ	Identification = Books	Ì			-	
	- 1		Identify as D2280 (Note: make two and Batch: MIII \$\frac{1}{2}\$				- 2	Λ
6	M	\overline{v}	(Note: make two spacers per assembly)	J.	L	05 10.20	$ \alpha $	U
	'''	•	Machine as per folio D2322, use stack of 15	+	-	10000	<u> </u>	
7	M	\overline{v}		71	1	05.10.25	1/)
	'''		Deburr to take measurement	1	+	73.W.W.		
8	Q	22	Inspect parts on the control of	TL	_	55-10-29	5/10	Í
			Inspect parts as they come off the CNC machine	0.1	+	23-10-0x:	2 / 10	<u>'</u>
9	QC	28	Second inspection	13.1		25.10.25	10)
			obstruction			5-3-111 · (A7	-110	<u>_</u>
10	Mν	/	Machine as per folio D2279, use stack of 15	_	2	05/10/2	6 /	C
			the ad por 10110 D2279, use stack of 15					<u> </u>
11	M∨	′ [Deburr to take measurement	JL	10	15.10.25	170)
	-				- 1			\neg
12	QC	2 1	nspect parts as they come off the CNC machine	7.1	0	21025	10	
- 40			<u></u> .		1.			
13	QC	8 8	Second inspection	JJL	<u> </u> C	75.01.20	10	
11	1 100					٠		
14	MV	1	Machine as per folio D2278, use stack of 10	30	72	5/10/26	10	٥
15	1 00/			171		* 10 7 1	1	
13	MV	D	Deburr to take measurement	J.L	10	5.10.26	20	<u>'</u>
16	QC			J.L	m	5/10/21	1	
10	1 002	- liu	spect parts as they come off the CNC machine	13.0	100	3/10/26	20	_
17	QCE			J.L	M	5/10/26	20	.
',	l dec	, ' S	econd inspection	3.0	12	0/10/20	2	
18	MV		achin - C V		_	1. 1.1	200	
. •	'''	101	achine per folio D2280 and Dwg D2280		0	Hulzh	20	4
19	QC2		· ·	JL	00	5.10.25	20	
-	=52	1 1118	spect parts as they come off the CNC machine		 ~	(0,0)	20	J.,
20	MV		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J.L	0	5.10.25	20	
		. 'u	mble. Debuil any rough edges after tumbling.			<u>10,∞</u> -	20	-
1			A CONTRACTOR OF THE PARTY OF TH	J.L	05	10.25	20	
			AND AND AND AND AND AND AND AND AND AND			1	~~	1

FLEASED

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector	
				ļ					
					-				
							1		

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
		Description of NC		Corrective Action Section B	·.	Verification Section C	Approval Design Mgr	Approval
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date			QC Inspector
05.10.26	6	-1 part in stack of 10 holes did not go thru	8	- scrap + replace	J.L		8	03.026
					05.10.26	05:10:26	on Jen	Since
05/11/21	23	D 2322 were out of to be raner 1 D 2379 was out	W. S. C.	Serap a destroy		8	B	Busien
		1 D2279 crack.	and			05-(1-21	45P12	05100
							•	
							\$	

Part No:	PAR #:	Fault Category:	NCR:	Yes No DQA:	Date: <u>05/1/</u>	/12
NOTE: Date & initial all entries				QA: N/C Closed:	Date:	

DART AEROSPACE LTD	Work Order:	24533
Description: Hi-Step Leg Assembly	Part Number:	D2582
Dwg: D2582 Rev. A; D2322 Rev. C; D2279 Rev. D	Qty:	10
		Page 2 of 2

Step	Location	Procedure	Ву	Date	Qty
21	QC8	Second inspection	500	05/10/26	
22	GA	Deburr D2322, D2279 and D2278 stack	FF	05/11/18	20
23	GB	Bend D2322 and D2279 per Dwg D2322 and D2279	SB	05/u/a1	8
24	QC5	Inspect work to Step 23	A	05.11.21	8
25	FP	Chemical conversion as per QSI 005 D2278, D2279, D2280, D2322	Sb	25/11/21	8
26	GA	22 MS20470AD4-4 Rivet M18729 4 MS20470AD4-5 Rivet M16729		oslulai	ઇ
27	QC5	Inspect work to Step 26	A	05/1/21	8
28	GA	Identify and Stock	SB	05/11/21	8
29	AC .	Cost / part 40, 15		55-11-22	X
30	DC	Close W/O 40.15 Inspect Level 21		05/11/22	8

Rev	Date	Change	Revised By	Approved
Α	96.07.08	New Issue	,	
В	99.02.10	Re-format	DM	· · · · · · · · · · · · · · · · · · ·
O	01.10.16	Added new rivet and new dwg (mpp2165)	SM	4
D	02.05.14	Added rivet option	NG	\
E	02.10.07	Re-format; Incorporated D2278, D2279, D2280, D2322	KJ RF	44



Dart Aerospace Ltd

W/O:	WORK ORDER CHANGES						·	
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector	

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
		Description of NC	<u> </u>	Corrective Action Section B		Varification	Approval	A
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Verification Section C	Design Mgr	Approval QC Inspector
		•						

	-	·						
				·				

Part No:	PAR #:	Fault Category:	_NCR:	Yes	No	DQA:	 Date:	
NOTE: Date & initial all entries				QA:	N/C C	losed:	Date:	

H:\forms\Quality Assurance\approved forms\NCRWO revC

DART AEROSPACE LTD	Work Order:	24533
Description: Leg	Part Number:	D2278
Inspection Dwg: D2278 Rev: C		Page 1 of 1

					7 1	
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.354	+/-0.010	.354				***************************************
0.354	+/-0.010	-352	/,		7,,,,,	
2.250	+/-0.005	2-249	1			
16.458	+/-0.010	16.457	<i>J</i> ,			
Ø0.128	+0.005/-0.000	-130				,
R0.354	+/-0.010	.354				
2.000	+/-0.010	2.001				
4.736	+/-0.010	4.734				
8.325	+/-0.010	8.325				
Ø0.213	+0.005/-0.000	.214	<i>J</i> .			
0.080 thick	+/-0.010	.078				
	-					

Measured by:	Audited by:	me	Prototype Approval:	N/A
Date: 05.10.26	Date:	05/10/26	Date:	N/A

Rev	Date	Change		Revised by	Approved
Α	04.10.12	New Issue	P/O D2582	KJ/JLM	(1/1/



DART AEROSPACE LTD	Work Order:	24533
Description: Step Spacer	Part Number:	D2279
Inspection Dwg: D2279 Rev: D		Page 1 of 1

					· · · · · · · · · · · · · · · · · · ·	
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.250	+/-0.005	.251	/,			
2.214	+/-0.005	2.215				
4.178	+/-0.005	4.179				
4.428	+/-0.010	4429				
0.250	+/-0.005	-249	/			110
1.313	+/-0.005	1.313	//			
3.313	+/-0.005	3.3/3	/,			
4.625	+/-0.010	4.626				
Ø0.128	+0.005/-0.000	.130				-
Ø1.250	+0.005/-0.000	1.252				
R0.125	+/-0.010	.125			#	
				-		7 10 10 10
				× •		
					<u> </u>	

Measured by:	 よし	Audited by:	Inl	Prototype Approval:	N/A
Date:	05.10.25	Date:	05/10/25	Date:	N/A

Rev	Date	Change		Revised by	Approved
A	04.10.12	New Issue	P/O D2582	KJ/JLM	
					7



DART AEROSPACE LTD	Work Order:	24533
Description: Spacer	Part Number:	D2280
Inspection Dwg: D2280 Rev: C1		Page 1 of 1

Drawing	Tolorenes	Actual	A	Daire	Method of	
Dimension	Tolerance	Dimension	Accept	Reject	Inspection	Comments
0.150	+/-0.010	- 149	1			
0.236	+/-0.010	.226				
3.270	+/-0.010	3.270				
3.020	+/-0.010	3.020	1,			
2.135	+/-0.010	2.134	<i>\int_1</i>			
1.135	+/-0.010	1.134	1			
0.250	+/-0.010	.250				
1.00	+/-0.030	-995				
Ø0.128	+0.005/-0.000	.130	/,			
Ø0.213	+0.005/-0.000	. 214				
C'sink 0.250 x 90°	+/-0.010	-248				
						V-11
					• · · · · · · · · · · · · · · · · · · ·	

Measured by:	Audited by:	In	Prototype Approval:	N/A
Date: 05.10-2 5	Date:	05/10/25	Date:	N/A

Rev	Date	Change		Revised by	Approved
Α	04.10.12	New Issue	P/O D2582	KJ/JLM	WIII
					-



DART AEROSPACE LTD	Work Order:	24533
Description: Step Spacer	Part Number:	D2322
Inspection Dwg: D2322 Rev: C		Page 1 of 1

Drawing	Tolorono	Actual	A = = = -1	Date	Method of	
Dimension	Tolerance	Dimension	Accept	Reject	Inspection	Comments
0.250	+/-0.005	-251	1			
4.178	+/-0.005	4.179	1			
4.428	+/-0.010	4.429				
0.250	+/-0.005	-247				
6.520	+/-0.010	6.525				
Ø0.128	+0.005/-0.000	.130				
R0.125	+/-0.010	.125				
			,			,
						·
<u>.</u>						
			18			

Measured by:	J.L	Audited by:	7	Prototype Approval:	N/A
Date:	05-10-25	Date:	25/0120	Date:	N/A

Rev	Date	Change		Revised by	Approved
Α	04.10.12	New Issue	P/O D2582	KJ/JLM (11///
				·	1

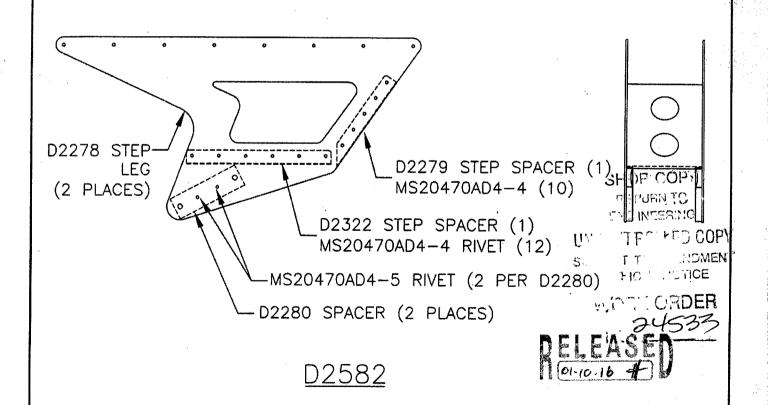






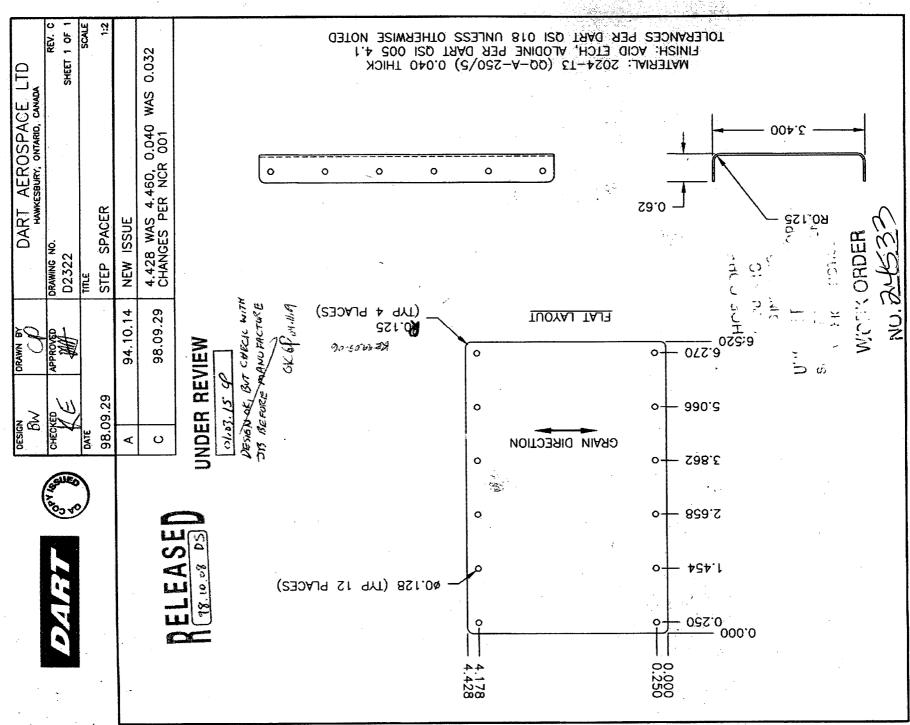
DESIGN ()	DRAWN BY	DART AEROSPACE LTD	
CHECKED	APPROVED,	HAWKESBURY, ONTARIO, CANADA DRAWING NO.	
#	#	D2582 SHEET	REV. A
OATE		TILE	SCALE
01.10.05		STEP LEG ASSEMBLY	1:5
A T	01.10.05	NEW ISSUE	

QTY	PART NUMBER	DESCRIPTION
2	D2278	STEP LEG
1	D2279	STEP SPACER
2	D2280	SPACER
1	D2322	STEP SPACER
22	MS20470AD4-4	RIVET
4	MS20470AD4-5	RIVET

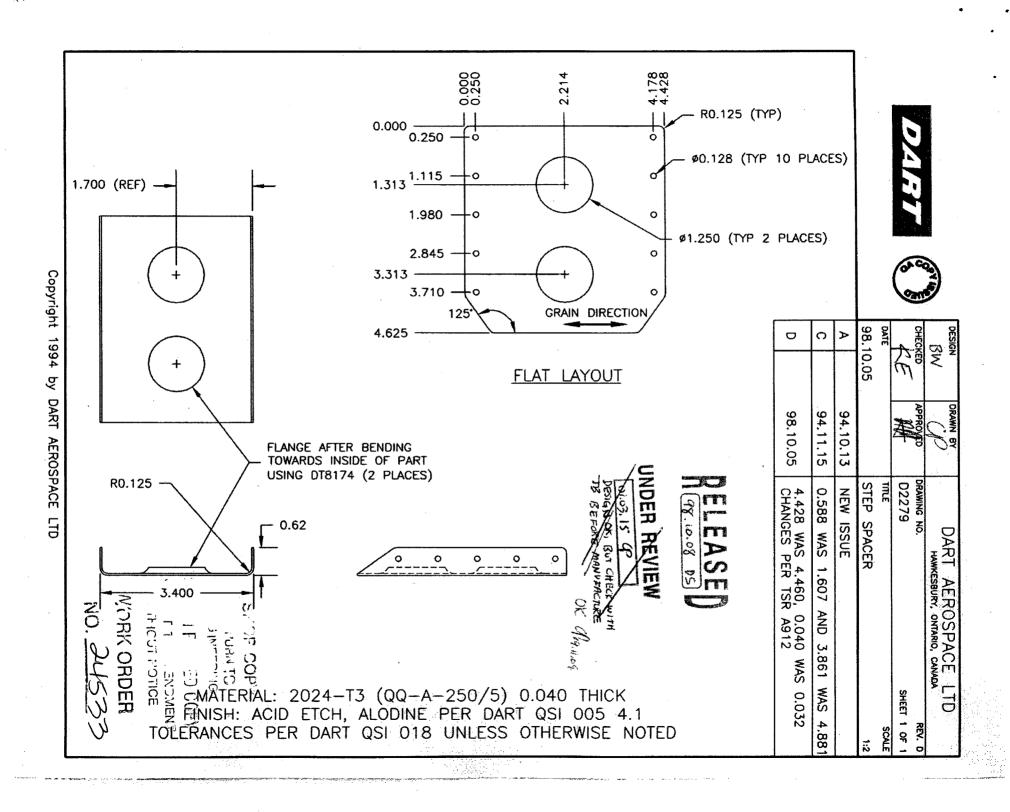


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		TO BE SEE	•	· · · · · ·	•	
						2 1 1
• •						

Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Oct 11, 2005 11:50 am

Work Order No, : 0024533

Department Code: : D2582

Project Name Project For Burden Flags : NNNNNNN : WK544 Work Order Type WO Status : Open : Main

Invoice State : Not Invoiced Main WO Number

Invoice Date House Part Number: D2582 Invoice Number: Description : Hi-Skid Step Leg Ass'y

Invoice Amount : 0.00 Manufactured : Yes

Amount Req'd: 10 Order Entry No : Amount Done : 0

: 10-11-05 OE Value 0.00 Start Date

Est Finish Date : 11-05-05

Act Finish Date Drawings Reqd Est Mark Up : 0.000% : No Actual Mark Up : 0.000%

Ok for Approval :

\$0 Posted to Finished Goods Approval Rec'd :

		Estimated	Actual	Var. %	Posted	To Post
Motoriol Cost	= == =	0.00	0.00	0.00	0.00	0.00
Material Cost	:				0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		•
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		•
Misc.	:	0.00	0.00	0.00	0.00	0.00
		========	========	======		
Burden	:	0.00	0.00	0.00		
		========	========	======	*	
Total Cost	:	0.00	0.00	0.00	4	
Mark up	:	0.000	0.000			•
Selling Cost	:	0.00	0.00			

Actual Estimated Labour Hrs/Amount Done : 0.00 0.00 Profits/(Loss) 0.00 0.00





	A		
DESIG		DRAWN BY	DART AEROSPACE LTD hawkesbury, ontario, canada
CHEC	KED	APPROVED	DRAWING NO. REV. C
	FE		D2280 SHEET 1 OF 1
DATE		 	TITLE SCALE
98.0	9.29		SPACER 1:1
Α		94.10.14	NEW ISSUE
В		95.03.22	MATERIAL CHANGE, 0.15 WAS 0.20
С		98.09.29	0.188 DIA HOLE CHANGED TO 0.213
	DATE 98.0	98.09.29 A	CHECKED APPROVED DATE 98.09.29 A 94.10.14 B 95.03.22

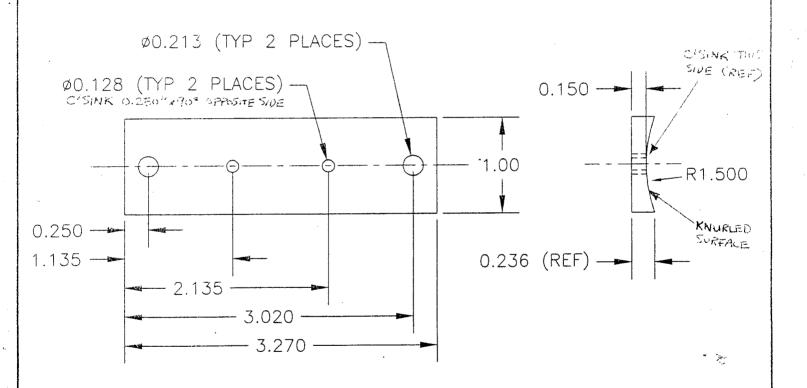


CAT SI DI-10.05 ADD CISINK & KNURLING .

HADER REVIEW 4.05,15 CP

DESIGN OK, BUT CITELE WITH JB BEFORE MANUFACTURE

CONTROLLED COPY



MATERIAL: 6061-T6 (QQ-A-200/8) 0.25 x 1.00

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

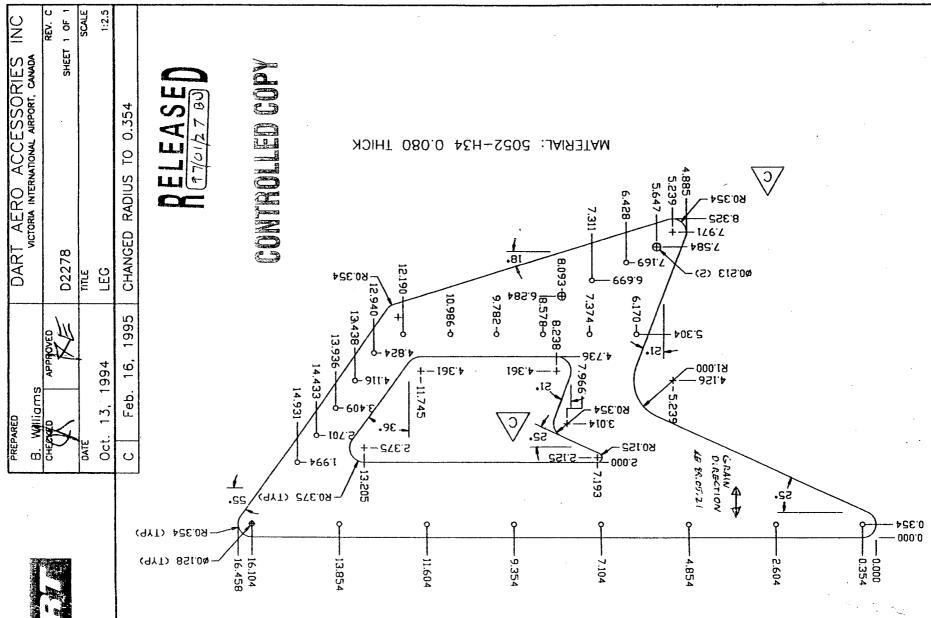
BEFORE MANUFACTURE

But CHELL WITH

DEIGN OK!

5/2010

MDEB



Copyright

43